

What is claimed is:

1. A motor driving device comprising:  
a motor; and  
a motor driver circuit for controlling motion of the motor,  
wherein the motor driver circuit has a function of limiting a current supplied to the motor below a predetermined limit value.

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2. A motor driving device as claimed in claim 1, further comprising:  
adjusting means for adjusting the limit value.

3. A motor driving device as claimed in claim 1,  
wherein the limit value is brought down to a predetermined value that is required to drive the motor so that the motor is driven with a constant current.

4. A motor driving device as claimed in claim 1,  
wherein the limit value is brought up above a predetermined value that is required to drive the motor so that the motor is driven in a saturated state.

5. A motor driving device as claimed in claim 1,  
wherein the motor driving device has a USB (universal serial bus) as an interface bus and is designed as a bus-powered device that is supplied with electric power via the USB.

6. A motor driving device as claimed in claim 1,

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wherein the motor driving device is a disk device and the motor is a stepping motor.

7. A motor driving device comprising:

a motor;

a motor driver circuit for controlling motion of the motor; and

a resistor provided in a line by way of which electric power is supplied to the motor,

wherein the motor driver circuit limits a current supplied to the motor below a predetermined limit value by performing feedback control in such a way that a voltage across the resistor is kept below a predetermined voltage.

8. A motor driving device as claimed in claim 7,

wherein the limit value can be adjusted by varying the resistance of the resistor.

9. A motor driving device as claimed in claim 7,

wherein the limit value is brought down to a predetermined value that is required to drive the motor so that the motor is driven with a constant current.

10. A motor driving device as claimed in claim 7,

wherein the limit value is brought up above a predetermined value that is required to drive the motor so that the motor is driven in a saturated state.

11. A motor driving device as claimed in claim 7,  
wherein the motor driving device has a USB (universal serial bus) as an  
interface bus and is designed as a bus-powered device that is supplied with electric  
power via the USB.

12. A motor driving device as claimed in claim 7,  
wherein the motor driving device is a disk device and the motor is a stepping  
motor.

13. A disk device comprising:  
a head for writing and reading data to and from a disk;  
a stepping motor for moving the head stepwise in a direction of a radius of  
the disk;  
a stepping motor driver circuit for controlling the stepping motor; and  
a resistor provided in a line by way of which electric power is supplied to  
the stepping motor,  
wherein the stepping motor driver circuit limits a current supplied to the  
stepping motor below a predetermined limit value by performing feedback control  
in such a way that a voltage across the resistor is kept below a predetermined  
voltage.

14. A disk device as claimed in claim 13,  
wherein the limit value can be adjusted by varying the resistance of the  
resistor.

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15. A disk device as claimed in claim 13,  
wherein the limit value is brought down to a predetermined value that is  
required to drive the stepping motor so that the stepping motor is driven with a  
constant current.
16. A disk device as claimed in claim 13,  
wherein the limit value is brought up above a predetermined value that is  
required to drive the stepping motor so that the stepping motor is driven in a  
saturated state.
17. A disk device as claimed in claim 13,  
wherein the disk device has a USB (universal serial bus) as an interface bus  
and is designed as a bus-powered device that is supplied with electric power via  
the USB.